

### WEB TECHNOLOGIES

React.JS – Refs and passing refs

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# React.JS – Refs and passing refs Introduction

PES UNIVERSITY ONLINE

- We have said the DOM traversal and Manipulation is slow
- Also, JSX is a representation of HTML Element

- Accessing DOM Elements in JSX is not straight forward
- Hence, React provides refs to access DOM Elements or Components from other elements



# React.JS – Refs and passing refs Refs



- Refs can be used to induce changes in Components or Elements after they have been rendered (like animation, user action events etc.)
- To create a ref add a property which is set to a callback function that sets a reference to that element

```
<input type="text" ref={this.setTextInputRef} />
this.setTextInputRef = element => {
        this.textInput = element;
};
```

Here *element* refers to the input text element



#### React.JS – Refs and passing refs Refs



 Now this.textInput is the reference to that element and can be used to perform raw DOM operations

```
if (this.textInput) {
    this.textInput.focus();
    console.log(this.textInput.value)
}
```



### React.JS – Refs and passing refs Passing Refs



 Parent element can pass a ref callback to its child element, to get reference to the child element

```
function CustomTextInput(props) {
  return (
    <div>
             <input ref={props.inputRef} />
    </div>
class Parent extends React.Component {
  render() {
    return (
             <CustomTextInput inputRef={el =>
                      this.inputElement = el} />
```





## **THANK YOU**

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